

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

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IECEX SIR 11.0027X

issue No.:0

Certificate history:

Status:

Current

Date of Issue:

2011-04-15

Page 1 of 4

Applicant:

Rotork Controls Limited

Brassmill Lane Bath BA1 3JQ United Kingdom

Electrical Apparatus: Optional accessory:

Parking Housing/P3W Coordinator/ P3W Repeater

Type of Protection:

Flameproof and Dust

Marking:

Ex d IIB T4 Gb

Ex t IIIC T120°C Db IP6X Ta = - # °C to +70°C (# = -20°C or -50°C)

Approved for issue on behalf of the IECEx

Certification Body:

C Ellaby

Position:

Deputy Certification Manager

Signature:

(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.

2. This certificate is not transferable and remains the property of the issuing body.

3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

SIRA Certification Service
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom





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Page 2 of 4

Manufacturer:

Rotork Controls Limited

Brassmill Lane Bath BA1 3JQ United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0: 2007-10

Explosive atmospheres - Part 0:Equipment - General requirements

Edition: 5

IEC 60079-1: 2007-04

Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition: 6

IEC 60079-31: 2008

Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'

Edition: 1

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

GB/SIR/ExTR11.0079/00

Quality Assessment Report:

GB/SIR/QAR07.0003/01



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IECEx SIR 11,0027X

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Issue No : 0

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Parking Housing comprises of two main parts, the enclosure base and the housing/terminal cover (lid). The base is manufactured in cast aluminium alloy LM25. It comprises a circular housing with a flanged base. The flanged base is for mounting purposes. The enclosure base is provided with four (optional) threaded cable entry points. These are provided with a M25 x 1.5 thread. The base is designed to accommodate either a deep housing or a standard Rotork terminal cover.

There are two cover options that can be specified; either a deep housing or standard terminal cover. The deep housing covers are manufactured in cast aluminium alloy LM25TF, the standard terminal covers are manufactured in either cast aluminium alloy LM20 or LM25. In all cases the joint between the enclosure lid and base is a tapered spigoted, cylindrical flamepath. In all cases the lid is secured to the base with four captive M8 x 38 hexagonal socket cap-head screws. The deep housing cover is provided with up to five optional threaded cable entry points. These are provided with a M25 x 1.5 thread.

Design Options

The Parking Housing can be supplied as the 'P3W Coordinator' or the 'P3W Repeater' these are fitted with internal equipment as described below

Refer to EQUIPMENT (continued) for additional information

CONDITIONS OF CERTIFICATION: YES as shown below:

In accordance with clause 5.1 of EN 60079-1, the critical dimensions of the flamepaths are: Flamepath Maximum Gap (mm) Minimum L (mm)

Housing & Terminal

Cover/Enclosure Base

When supplied with an individual Parking Housing enclosure base the user is only permitted to install the

following equipment taken from the Rotork Actuators as listed:

Cover Option

Internal Equipment

Deep Housing

Profibus® Disconnect PCB

Standard terminal cover

Profibus® Disconnect PCB

Deep Housing

Wireless network, associated external aerial

IQ Electric Valve Actuators

The user equipment comprising the terminal enclosure lid and the associated contents removed from: IIB

IECEx SIR 04.0003X

IQT Electric Valve Actuators

IECEx SIR 04.0001X

The flamepath shall be protected by the protective device supplied with the equipment when an enclosure 3

cover is not installed.



IECEx Certificate of Conformity

Certificate No.:

IECEx SIR 11.0027X

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Page 4 of 4

EQUIPMENT(continued):

Parking Housing as complete units

Designation

Cover Option

Internal Equipment

Internal Equipment

P3W Coordinator P3W Repeater

Deep Housing Deep Housing Wireless network, associated external aerial P3W Coordinator

Wireless network, associated external aerial and power supply

'P3W Repeater'

Parking Housing with user equipment

Cover Option

Deep Housing Standard terminal cover Profibus® Disconnect PCB Profibus® Disconnect PCB

Deep Housing

Wireless network, associated external aerial

The user equipment comprising the terminal enclosure lid and the associated contents removed from

IQ Electric Valve Actuators

IIB

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IQT Electric Valve Actuators

IECEx SIR 04.0001X

Conditions of manufacture

The Manufacturer shall comply with the following:

Gas Group IIB (below-20°C to -50°C) Each device shall be subjected to a routine overpressure test in accordance with the table below. In all cases the pressure shall be maintained for at least 10 s as required by clause 16 of IEC 60079-1:2007. There shall be no permanent deformation or damage to the enclosure.

Equipment

Hydrostatic Overpressure Test Pressure

Bar

Lbf/in² 239.68

Enclosure housing base

16.53